

External Job Advertisement Reg. Nr. 5-6486/26-D

At Martin-Luther-Universität Halle-Wittenberg, Institute of Physics group of Prof. Woltersdorf, a two-year fixed-term position is available as soon as possible for a

Postdoctoral researcher (m-f-d) in the Cluster of Excellence “Center for Chiral Electronics”

to be filled on the basis of pay grade 13 TV-L (100 %).

CCE is an alliance of leading research institutions based in Halle, Berlin and Regensburg, Germany. CCE explores chirality as a key resource for next-generation electronic technologies. The fundamental research focuses on understanding and controlling chiral phenomena at the atomic length and ultrafast time scale, bridging physics, chemistry, and materials science. The vision is to develop the basis for efficient, scalable, and sustainable technologies for advanced information processing. The cluster fosters interdisciplinary collaboration and aims to translate fundamental insights into new directions for electronic devices and quantum technologies. We offer an international environment, excellent infrastructure, and targeted support to help you develop your individual strengths, advance your career, and become part of a dynamic team. www.chiralelectronics.de

Work tasks:

- Fabrication of thin epitaxial layers of chiral B20-class materials using molecular beam epitaxy and single-atom layer deposition
- Characterization of the layers using X-ray diffraction and by measuring optical activity
- Fabrication and measurement of prototype device structures for spin injection
- Data analysis and publication of the scientific results
- Active participation in the events of CCE and strengthening of collaborations
- Opportunity to gain scientific and personal qualifications

Requirements:

- Completed university degree in physics or comparable degree
- Doctorate in physics or a comparable
- In-depth knowledge of solid-state physics
- Proficient in the Python programming
- Excellent communication skills
- High degree of self-motivation
- Very good German and English skills, equivalent to B2

We offer:

- Integration in the interdisciplinary and multi-institutional CCE network with excellent scientific infrastructure and mentoring
- Personal qualification, international visibility, and participation in joint workshops, conferences, and research stays at our partner sites



Applications from disabled persons, including those of equal status (as certified by the *Bundesagentur für Arbeit* / Federal Employment Agency), will be given preferential consideration if they are equally suitable and qualified. Women are strongly encouraged to apply. Applications from individuals of all nationalities are explicitly welcome. Applicants with a degree that was not obtained at a German university must submit a Statement of Comparability for Foreign Higher Education Qualifications from the Central Office for Foreign Education (ZAB) (<https://www.kmk.org/zab/central-office-for-foreign-education>) as proof of equivalence upon conclusion of the employment contract. You can find ways to apply for a financial grant for this under: <https://www.anerkennung-in-deutschland.de/html/de/pro/anererkennungszusschuss.php#>.

If you have any questions, please contact Prof. Dr. Georg Woltersdorf, Tel.: +49 (0)345 55-25300, E-mail: georg.woltersdorf@physik.uni-halle.de.

Please send your application, referring to Reg. Nr. 5-6486/26-D, with the required documents to Martin-Luther-Universität Halle-Wittenberg, Center for Chiral Electronics, 06099 Halle (Saale) until 28.07.2026. Preferably, submit your application in German or English electronically with the online portal <https://www.chiralelectronics.de/career/> using the corresponding job ad number (Reg. Nr. 5-6486/26-D).

This job posting is subject to potential budgetary restrictions.

Application costs will not be reimbursed by Martin Luther University. Application documents will only be returned if a sufficiently stamped envelope is enclosed. Electronic applications are welcome.